

Report

**BUILDING SURVEY FOR
ASBESTOS CONTAINING MATERIALS**



Subject Property: Apartment House

Address: 222 West Henry Street
Elmira, New York

Date of Survey: September 17, 2016

Prepared by: Atlantic Environmental Consulting
3725 Alpine Drive
Endwell, NY 13760



CONTENTS

I. Executive Summary	3
A. Overview	3
B. Significant Findings.....	3
II. General Information	5
A. Description of Structure	5
B. Purpose of Survey	5
C. General Procedure	6
D. Limits of Survey.....	7
III. Asbestos Survey Procedures	7
A. Inspection & Sampling	7
B. Laboratory Testing	7
IV. Findings	8
A. Laboratory Results	8
B. Summary of Findings.....	8
C. Transmittal of Survey Information	9
V. Recommendations	9

TABLES – FIGURES

- Table 1 -- Asbestos Survey Results
- Table 2 – Summary of Homogeneous Areas

- Figure 1 -- Site Location Map
- Figure 2 -- Building and Sampling Diagram

Photos

APPENDICES

- Appendix A - Laboratory Analytical Data
- Appendix B - Inspector & Laboratory Accreditation
- Appendix C - Glossary Of Terms, Abbreviations, And Acronyms

I. Executive Summary

This Section is a summary only and the user must refer to the entire contents of this report including Appendices.

A. Project Background

Project Background		
Purpose of Survey:	Pre-demolition	
Asbestos Survey Contractor:	Atlantic Environmental Consulting	
Date of Survey:	September 17, 2016	
Inspector(s):	Matthew Weintraub	Stephen Major
NYS DOL Certificate(s):	93-10084	03-01809
Client:	J. B. Evans & Sons	
Site Name:	Apartment House	
Site Address:	222 West Henry Street, Elmira, New York	
Brief Building Description:	The subject structure is a two story apartment house	
Property Owner:	Joel's Rentals LLC	
Owner Mailing Address:	Not provided	
Occupancy:	Vacant	

This building survey was performed on the subject building as part of the requirements for demolition and/or renovation under the New York State Department of Labor (NYS DOL) Industrial Code Rule 56, to determine if asbestos containing materials (ACMs) were used to build the structure. Suspect building materials were categorized into homogeneous areas and then inspected and sampled in order to be identified as ACMs or non-asbestos containing materials (NACMs).

B. Significant Findings

The findings of this asbestos survey are listed below. Additional details are presented in **Section IV**.

The following materials were found to contain asbestos in concentrations greater than 1%:

Friable ACMs

- **Friable fabric duct wrap** on ducts and boots in the basement. (approximately 10 square feet observed; additional TSI may exist in hidden cavities within the structure).
- **Friable flue cement** at the basement chimney (approximately 2 square feet).

Non-Friable ACMs

- **Non-friable red 12x12 floor tiles** at the front stair landing (approximately 30 square feet).

This Section is a summary only and the user must refer to the entire contents of this report including Appendices.

II. General Information

A. Description of Structure

Description of Structure	
Number of Stories:	Two stories
Superstructure:	Wood framed
Foundation:	Partial basement
Roofing:	Asphaltic
Exterior Walls / Siding:	Wood
Interior Floors:	Floor tiles, wood flooring, resilient flooring, carpet
Interior Walls:	Plaster
Interior Ceilings:	Plaster, grid ceiling, ceiling tiles
Heating System:	Forced air
Heating Plant Location:	Basement
Other Features:	N/A
Outbuildings:	N/A

B. Purpose of Survey

This survey was conducted in order to determine whether asbestos-containing materials (ACMs) and/or asbestos materials are present in the structure. Asbestos can cause debilitating or fatal illnesses. When disturbed, as during demolition or renovation activities, asbestos fibers can become airborne whereupon they can create a health hazard. ACMs and asbestos materials in buildings, and the disturbance of same, are regulated under federal, state, and local laws.

As part of asbestos surveys, suspect ACMs are identified and, where appropriate, sampled for analysis by an accredited laboratory. The suspect materials are also grouped into two categories: friable (able to be crushed or pulverized by hand pressure) and non-friable. Materials that are typically non-friable in their normal state, such as asphalt roofing or resilient floor tile, may become friable when subjected to mechanical abrasion activities (e.g. dry cutting or floor sanding). The physical disintegration of the material could cause asbestos fibers to be dispersed into the air.

C. General Procedure

Suspect ACMs are targeted for identification by (1) a review of pertinent building plans and other records, where available, and (2) by the sampling of suspect materials for certified laboratory analysis.

The following list (excerpted from 12NYCRR Part 56-5) summarizes typical ACMs and suspect materials in buildings; it is not all-inclusive:

Typical ACMs / Suspect Materials	
Surfacing Treatments:	
• Fireproofing	• Finish plasters
• Acoustical plaster	• Skim coats of joint compound
Thermal System Insulation:	
• Equipment insulation	• Cement or mortar used for boilers & refractory brick
• Boiler breeching, rope, duct, or tank insulation	• Piping and fitting insulations
Roofing and Siding Miscellaneous Materials:	
• Insulation board	• Cementitious board (transite)
• Vapor barriers	• Flashing
• Coatings	• Shingles
• Non-metallic or non-wood roof decking	• Galbestos
• Felts	
Other Miscellaneous Materials:	
• Dust and debris	• Fire blankets
• Floor tile	• Fire doors
• Cove base	• Brakes and clutches
• Floor leveler compound	• Mastics, adhesives and glues
• Ceiling tile	• Caulks
• Vermiculite insulation	• Sheet flooring (linoleum)
• Gaskets, seals, sealants	• Wallpaper
• Vibration isolators	• Drywall
• Laboratory tables and hoods	• Plasterboard
• Chalkboards	• Spackling/joint compound
• Pipe penetration packing / firestopping materials	• Textured paint
• Cementitious board	• Grout
• Electrical wire insulation	• Glazing compound
• Fire curtains	• Terrazzo

D. Limits of Survey

It is the belief of the inspector that the survey was comprehensive in nature. However, certain materials could exist within the survey area that were not exposed even though destructive techniques were authorized. Accessible areas were visually inspected and covering surfaces were removed as safety concerns and the limits of the survey permitted.

The described locations of ACMs may not be all-inclusive.

Quantities of ACMs are estimated and are not intended to be used for abatement project bidding/pricing. The abatement contractor, project designer, and others are advised to verify all site parameters including material quantities.

III. Asbestos Survey Procedures

A. Inspection & Sampling

The physical inspection of the property was conducted on September 17, 2016. The inspection consisted of the examination of accessible suspect materials (which may contain asbestos) in interior and exterior installations within the structure, in accordance with 12NYCRR Part 56-1.9.

Asbestos records: No records were provided that indicate the presence of ACMs in the building.

The structure was visually inspected to identify potential ACMs. The inspector assessed each suspect material to determine whether the material was friable or non-friable. Quantities and condition of suspect ACMs were recorded.

The suspect materials in this inspection flooring, plaster, ceiling tiles, window glazing compound, roofing, felts, and thermal system insulation.

A total of 38 samples were collected and submitted for analysis.

Certain building materials that were obviously not ACMs, such as wood, concrete, glass, and metal, were not sampled.

B. Laboratory Testing

Collected samples were sealed for transport under chain-of-custody documentation to EMSL Laboratories in New York, NY, NYS ELAP #11506. Samples were received at the laboratory on September 21, 2016. The analytical data were received from the laboratory on September 26, 2016. A copy of the laboratory's certification is included in Appendix B.

Either Polarized Light Microscopy (PLM) with Dispersion Staining or Gravimetric Matrix Reduction and PLM with Transmission Electron Microscopy (TEM), used for negative confirmation, were performed. Non-friable organically bound samples (NOBs) such as vinyl floor tile or asphalt-based roofing material are required, in NYS, to be analyzed utilizing gravimetric reduction protocols. NOB samples testing negative under the PLM portion of this examination underwent TEM analysis.

Multiple samples were taken of most homogeneous suspect materials. In order to minimize analytical costs the laboratory was instructed to forego additional analyses if and when one sample of a multiple homogeneous group or a layered system tested positive (positive stop).

IV. Findings

A. Laboratory Results

The laboratory analytical results are attached as Appendix A.

B. Summary of Findings

The following materials were found to contain asbestos in concentrations greater than 1%:

Friable ACMs

- **Friable fabric duct wrap** on ducts and boots in the basement. (approximately 10 square feet observed; additional TSI may exist in hidden cavities within the structure).
- **Friable flue cement** at the basement chimney (approximately 2 square feet).

Non-Friable ACMs

- **Non-friable red 12x12 floor tiles** at the front stair landing (approximately 30 square feet).

Survey Data

Survey data, including sampling locations, material descriptions, friability, condition, estimated quantities of ACM (if any), and asbestos content are summarized in **Table 1**.

Homogeneous Areas

Homogeneous areas of ACM and non-ACM materials are summarized in **Table 2**.

Building Diagrams

Diagrams of the building showing locations of positive and negative samples are presented in **Figure 2**.

Photos of ACM are in the *Photos* section after Figure 2.

C. Transmittal of Survey Information

In accordance with 12NYCRR Part 56, the results of the building/structure asbestos survey shall be immediately transmitted by the building/structure owner as follows:

1. "One copy of the completed asbestos survey shall be sent by the owner or their agent to the local government entity charged with issuing a permit for such demolition, renovation, remodeling or repair work under applicable State or local laws."
2. "The completed asbestos survey for controlled demolition (as per Subpart 56-11.5) or pre-demolition asbestos projects shall also be submitted to the appropriate Asbestos Control Bureau District Office." *The local New York State Asbestos Control Bureau District Office is provided below.*
3. "The completed asbestos survey shall be kept on the construction site with the asbestos notification and variance, if required, throughout the duration of the asbestos project and any associated demolition, renovation, remodeling or repair project."

SYRACUSE DISTRICT

(Counties: Allegany, Broome, Cayuga, Chemung, Chenango, Cortland, Delaware, Franklin, Hamilton, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Otsego, St. Lawrence, Schuyler, Seneca, Steuben, Tioga, Tompkins)

- 450 S. Salina Street, Syracuse, NY 13202; (315) 479-3215

V. Recommendations

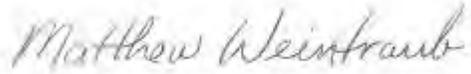
Prior to demolition, asbestos containing materials should be removed in accordance with 12NYCRR Part 56.

If hidden or otherwise suspect ACMs are discovered during demolition activities (or within the debris pile) they should be sampled and analyzed according to the procedures herein, and the scope of the demolition or removal altered as necessary based on the findings.

This survey report should be filed by the building owner with the appropriate governmental agencies, as noted in Section IV.C of this report. The inspector will retain a copy of this report in accordance with 12 NYCRR Part 56. Questions related to this survey should be directed to

the Inspector at 607-239-4311.

Respectfully Submitted,
ATLANTIC ENVIRONMENTAL CONSULTING, LLC



Matthew Weintraub
N.Y. Asbestos Inspector No. 93-10084



Stephen Major
N.Y. Asbestos Inspector No. 03-01809

Tables

Table 1 - Summary of Results

Date	Atlantic Sample #	Layer	Diagram location number	Building area	Location (refer to diagrams)	Suspect material	Friability	Condition of Friable		Estimated Quantity of Homogeneous	
								ACM	H.A.	ACM	% asbestos
9/17/16	I1716-401	n/a	1	2FL	Kitchen	White vinyl flooring	Non-friable	n/a	A	n/a	NAD
9/17/16	I1716-402	n/a	2	2FL	Kitchen	White vinyl flooring	Non-friable	n/a	A	n/a	NAD
9/17/16	I1716-403	n/a	3	2FL	Bath	Thinset mortar	Friable	n/a	B	n/a	NAD
9/17/16	I1716-404	n/a	4	2FL	Bath	Thinset mortar	Friable	n/a	B	n/a	NAD
9/17/16	I1716-405	n/a	5	2FL	BR	Felt at wood floor	Non-friable	n/a	C	n/a	NAD
9/17/16	I1716-406	n/a	6	2FL	BR	Felt at wood floor	Non-friable	n/a	C	n/a	NAD
9/17/16	I1716-407	n/a	7	2FL	Foyer	2x4 ceiling tile	Friable	n/a	D	n/a	NAD
9/17/16	I1716-408	n/a	8	2FL	Foyer	2x4 ceiling tile	Friable	n/a	D	n/a	NAD
9/17/16	I1716-409	n/a	9	2FL	Kitchen	1x1 ceiling tile	Friable	n/a	E	n/a	NAD
9/17/16	I1716-410	n/a	10	2FL	Kitchen	1x1 ceiling tile	Friable	n/a	E	n/a	NAD
9/17/16	I1716-411	n/a	11	2FL	Stair closet	Plaster	Friable	n/a	F	n/a	NAD
9/17/16	I1716-412	n/a	12	2FL	Kitchen	Plaster	Friable	n/a	F	n/a	NAD
9/17/16	I1716-413	n/a	13	2FL	Kitchen	Plaster	Friable	n/a	F	n/a	NAD
9/17/16	I1716-414	n/a	14	1FL	Kitchen/bath	White vinyl flooring	Non-friable	n/a	G	n/a	NAD
9/17/16	I1716-415	n/a	15	1FL	Kitchen/bath	White vinyl flooring	Non-friable	n/a	G	n/a	NAD
9/17/16	I1716-416	n/a	16	1FL	Front stair	Red 12x12 floor tile	Non-friable	n/a	H	30 s.f.	1.4%
9/17/16	I1716-417	n/a	17	1FL	Front stair	Red 12x12 floor tile	Non-friable	n/a	H		PS
9/17/16	I1716-418	n/a	18	1FL	LR	1x1 ceiling tile (dot)	Non-friable	n/a	I	n/a	NAD
9/17/16	I1716-419	n/a	19	1FL	LR	1x1 ceiling tile (dot)	Non-friable	n/a	I	n/a	NAD
9/17/16	I1716-420	n/a	20	Basement	Chimney	Flue cement	Friable	Damaged	J	2 s.f.	3.5%
9/17/16	I1716-421	n/a	21	Basement	Chimney	Flue cement	Friable	Damaged	J		PS
9/17/16	I1716-422	n/a	22	Basement	Wall	Plaster	Friable	n/a	F	n/a	NAD
9/17/16	I1716-423	n/a	23	Basement	Ducts	Fabric duct wrap	Friable	Damaged	K	10 s.f.	36.4%
9/17/16	I1716-424	n/a	24	Basement	Ducts	Fabric duct wrap	Friable	Damaged	K		PS
9/17/16	I1716-425	n/a	25	Exterior	Window	Glazing compound	Non-friable	n/a	L	n/a	NAD
9/17/16	I1716-426	n/a	26	Exterior	L window	Glazing compound	Non-friable	n/a	L	n/a	NAD
9/17/16	I1716-427	n/a	27	Roof	R side	Bituminous ice-water membrane	Non-friable	n/a	M	n/a	NAD
9/17/16	I1716-428	n/a	28	Roof	R side	Bituminous ice-water membrane	Non-friable	n/a	M	n/a	NAD

Table 1 Notes:

Orange highlighting indicates samples with greater than 1% asbestos - POSITIVE or presumed

NAD = No asbestos

PS = Positive Stop: the sample or layered system is presumed to contain asbestos

H.A. = Homogeneous Area

Table 1 - Summary of Results

Date	Atlantic Sample #	Layer	Diagram location number	Building area	Location (refer to diagrams)	Suspect material	Friability	Condition of Friable		Estimated Quantity of Homogeneous	
								ACM	H.A.	ACM	% asbestos
9/17/16	I1716-429	n/a	29	Roof	R porch	Asphaltic felt	Non-friable	n/a	N	n/a	NAD
9/17/16	I1716-430	n/a	30	Roof	R porch	Asphaltic felt	Non-friable	n/a	N	n/a	NAD
9/17/16	I1716-431	n/a	31	Roof	R porch	White asphaltic shingle	Non-friable	n/a	N	n/a	NAD
9/17/16	I1716-432	n/a	32	Roof	R porch	White asphaltic shingle	Non-friable	n/a	N	n/a	NAD
9/17/16	I1716-433	n/a	33	Roof	Main front	Green asphaltic shingle	Non-friable	n/a	O	n/a	NAD
9/17/16	I1716-434	n/a	34	Roof	Main front	Green asphaltic shingle	Non-friable	n/a	O	n/a	NAD
9/17/16	I1716-435	n/a	35	Roof	Rear patched	Brown asphaltic shingle	Non-friable	n/a	P	n/a	NAD
9/17/16	I1716-436	n/a	36	Roof	Rear patched	Brown asphaltic shingle	Non-friable	n/a	P	n/a	NAD
9/17/16	I1716-437	n/a	37	Roof	R side	Asphaltic flashing cement	Non-friable	n/a	Q	n/a	NAD
9/17/16	I1716-438	n/a	38	Roof	R side	Asphaltic flashing cement	Non-friable	n/a	Q	n/a	NAD

Table 1 Notes:

Orange highlighting indicates samples with greater than 1% asbestos - POSITIVE or presumed

NAD = No asbestos

PS = Positive Stop: the sample or layered system is presumed to contain asbestos

H.A. = Homogeneous Area

Table 2 - Homogeneous Areas

Area	Material	Locations	Friability	ACM? Y/N	Quantity of ACM
A	White vinyl flooring	Second floor kitchen	Non-friable	N	N/A
B	Thinset mortar	Second floor bath	Friable	N	N/A
C	Felt at wood floor	Second floor bedroom	Non-friable	N	N/A
D	2 x 4 ceiling tile	Second floor foyer	Friable	N	N/A
E	1x1 ceiling tile	Second floor kitchen	Friable	N	N/A
F	Plaster	Walls and ceilings throughout the structure	Friable	N	N/A
G	White vinyl flooring	First floor kitchen and bath	Non-friable	N	N/A
H	Red 12 x 12 floor tile	Front stair landing	Non-friable	Y	30 s.f.
I	1x1 ceiling tile (dot)	First floor living room	Friable	N	N/A
J	Flue cement	Basement chimney	Friable	Y	2 s.f.
K	Fabric duct wrap	Basement ducts	Friable	Y	10 s.f.
L	Glazing compound	All old-style putty-glazed window sash	Non-friable	N	N/A
M	Bituminous ice-water membrane	Right-sided roof	Non-friable	N	N/A
N	Asphaltic felt and white shingle roofing	Right porch roof	Non-friable	N	N/A
O	Green asphaltic shingle roofing	Main roofs	Non-friable	N	N/A
P	Brown asphaltic shingle roofing	Patched areas of roof	Non-friable	N	N/A
Q	Asphaltic flashing cement	At roof joints and penetrations	Non-friable	N	N/A

Table 2 Notes:

Orange highlighting indicates Asbestos Containing Materials

* Quantities are estimated and approximate: s.f. = square feet; l.f. = linear feet

Figures

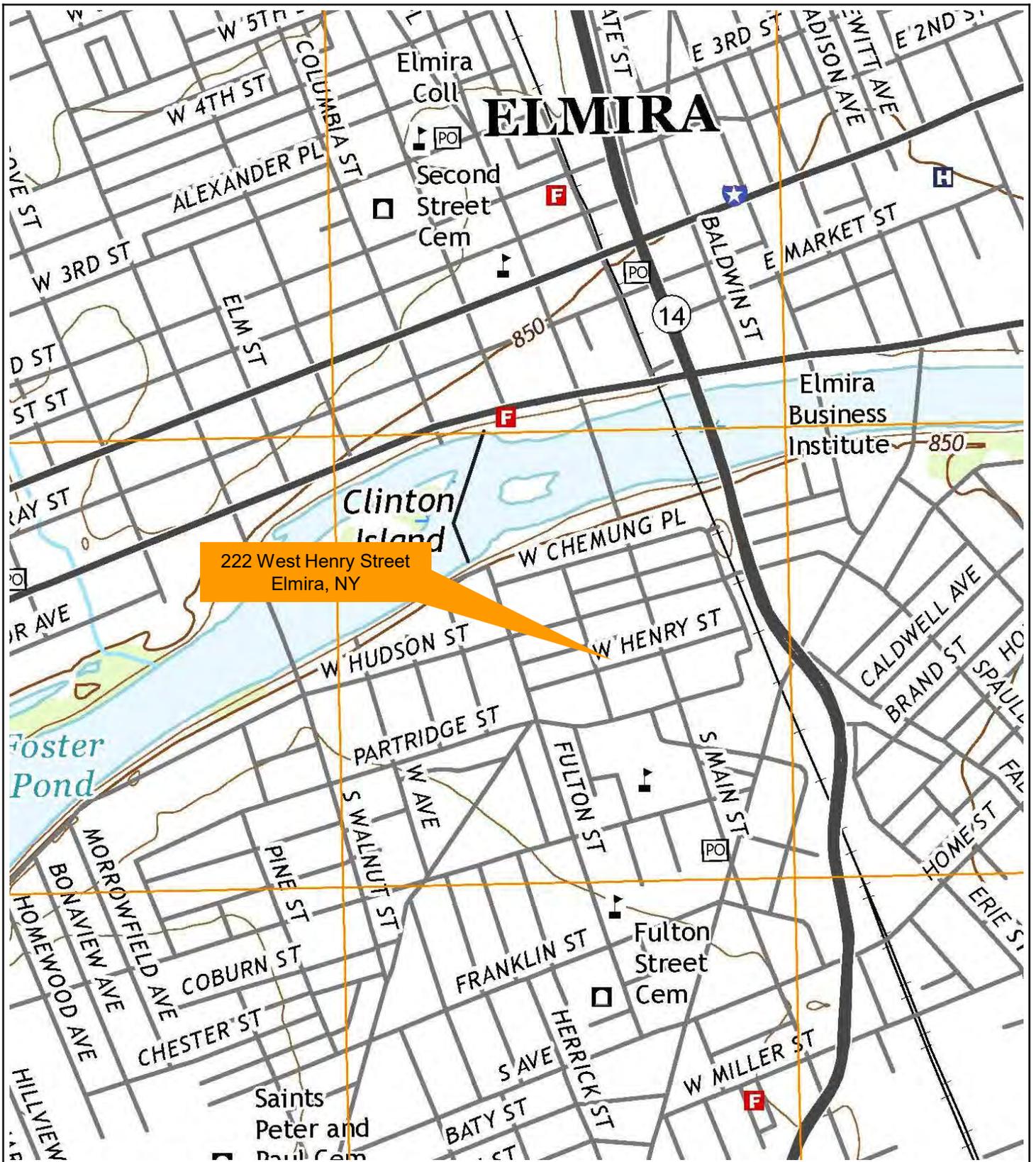


FIGURE 1: SITE LOCATION

Project: Pre-Demolition
Asbestos Survey

Site: 222 West Henry Street, Elmira, NY

Atlantic Environmental Consulting, LLC

Source: USGS 7.5-min. Quadrangle
Elmira, New York (2016)



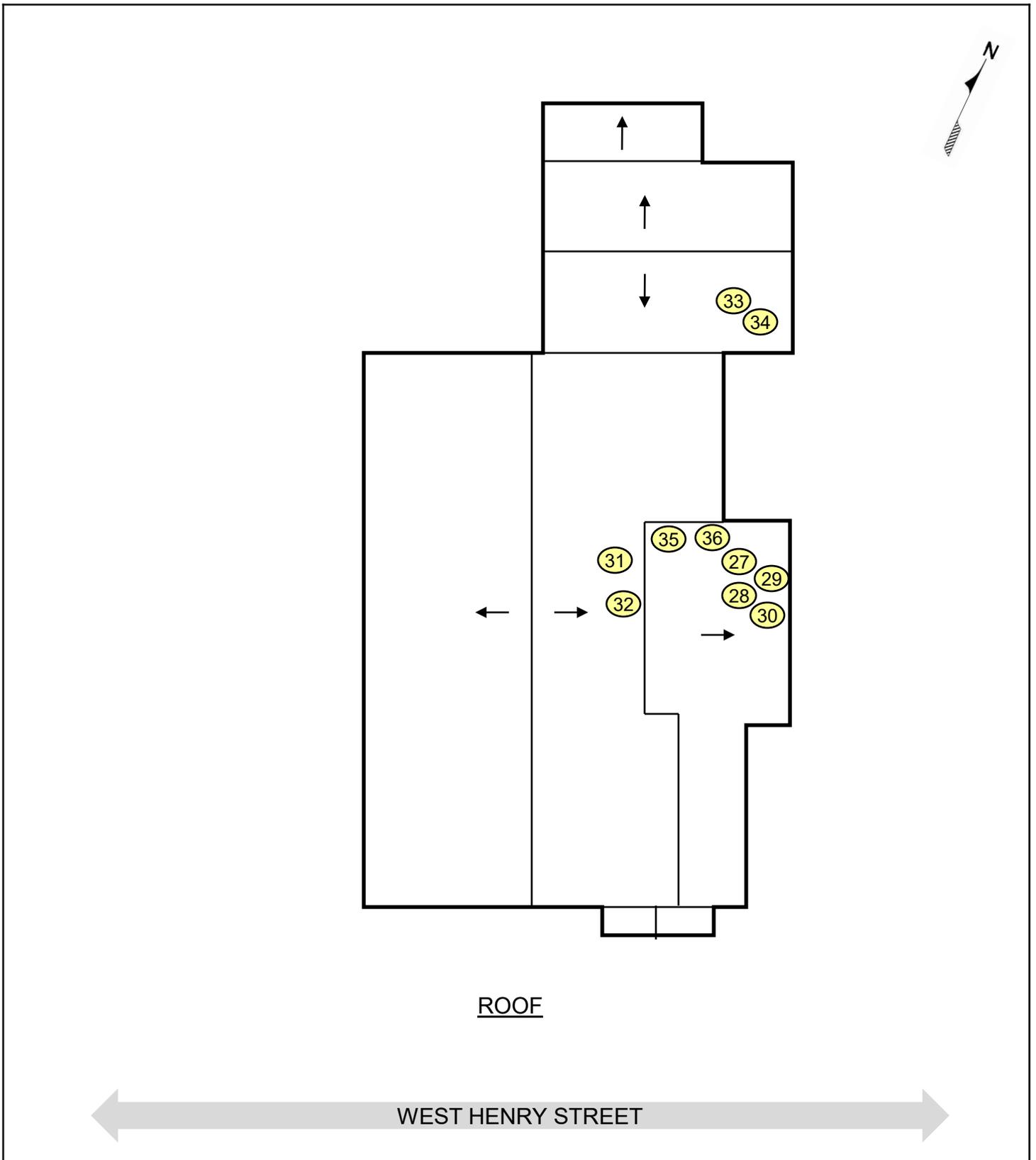


FIGURE 2: BUILDING AND SAMPLING DIAGRAM

Sampling Locations

Project: Pre-Demolition
Asbestos Survey

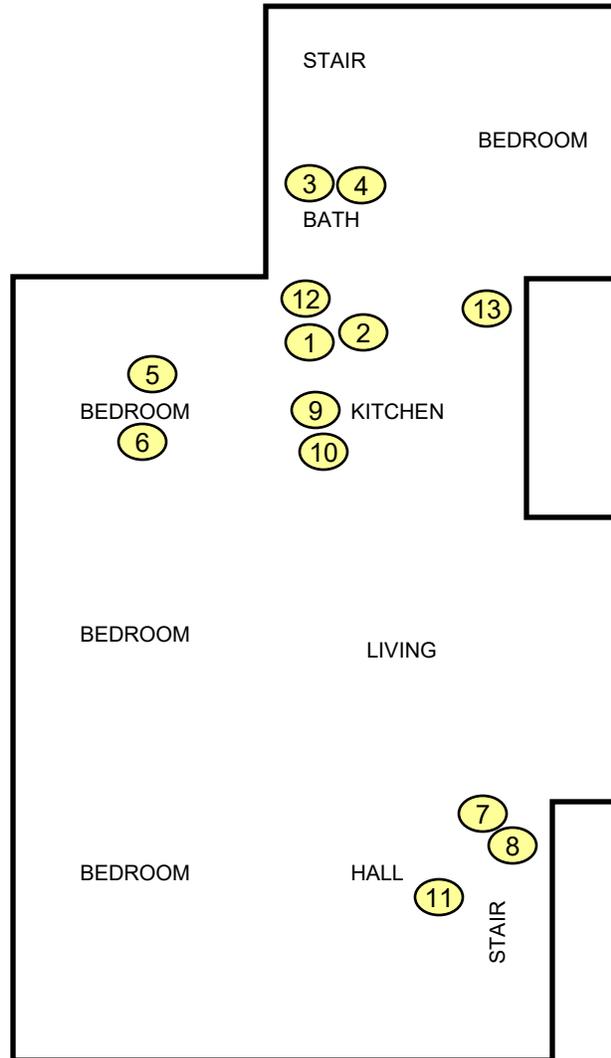
Site: 222 West Henry Street, Elmira, NY

- Negative Samples
- Positive or Presumed Samples



Approximate scale: 1" = 12'

Sheet 1 of 4



2ND FLOOR



FIGURE 2: BUILDING AND SAMPLING DIAGRAM

Sampling Locations

Project: Pre-Demolition
Asbestos Survey

Site: 222 West Henry Street, Elmira, NY

-  Negative Samples
-  Positive or Presumed Samples



Approximate scale: 1" = 12'

Sheet 2 of 4

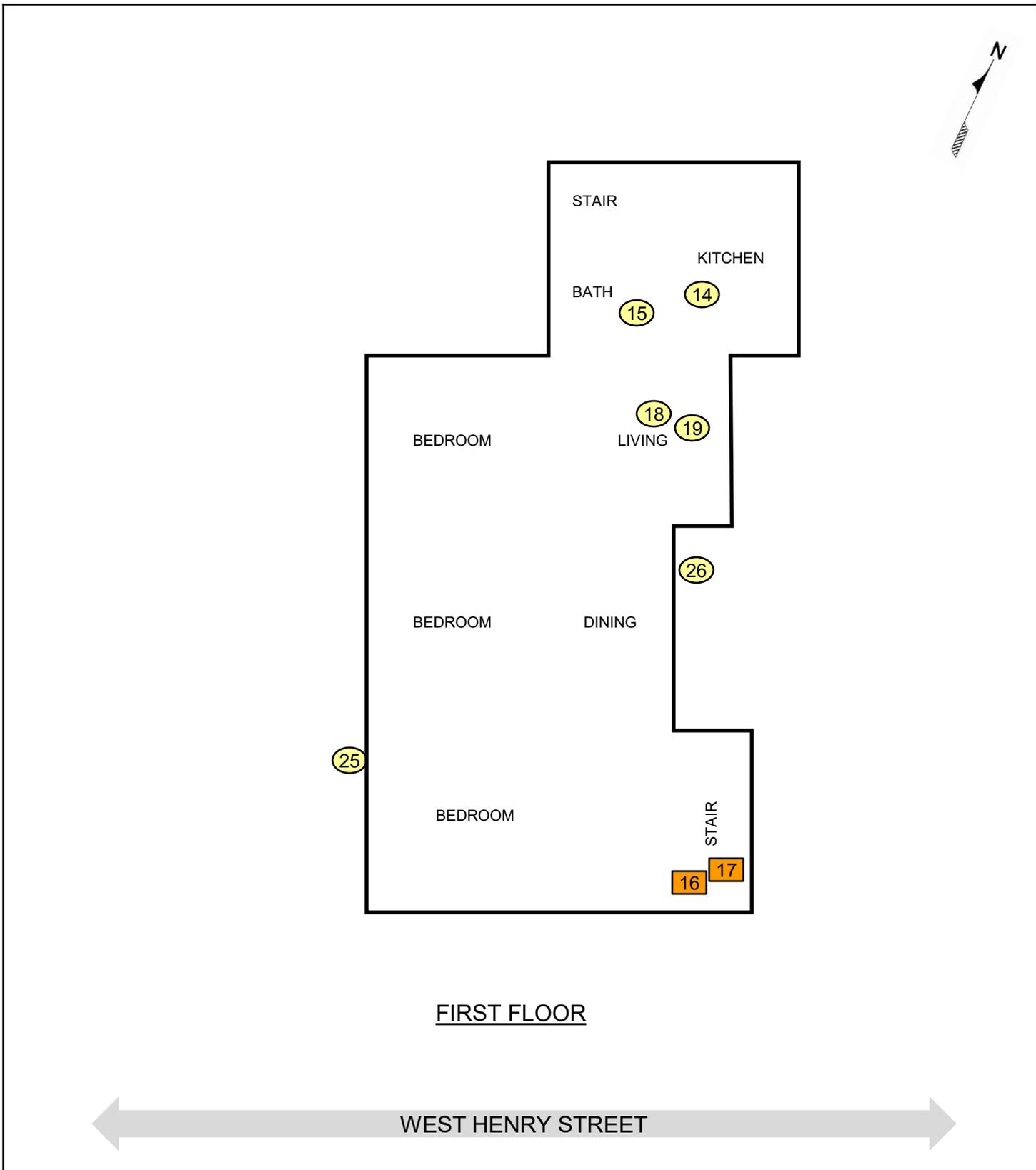


FIGURE 2: BUILDING AND SAMPLING DIAGRAM

Sampling Locations

Project: Pre-Demolition
Asbestos Survey

Site: 222 West Henry Street, Elmira, NY

- Negative Samples
- Positive or Presumed Samples

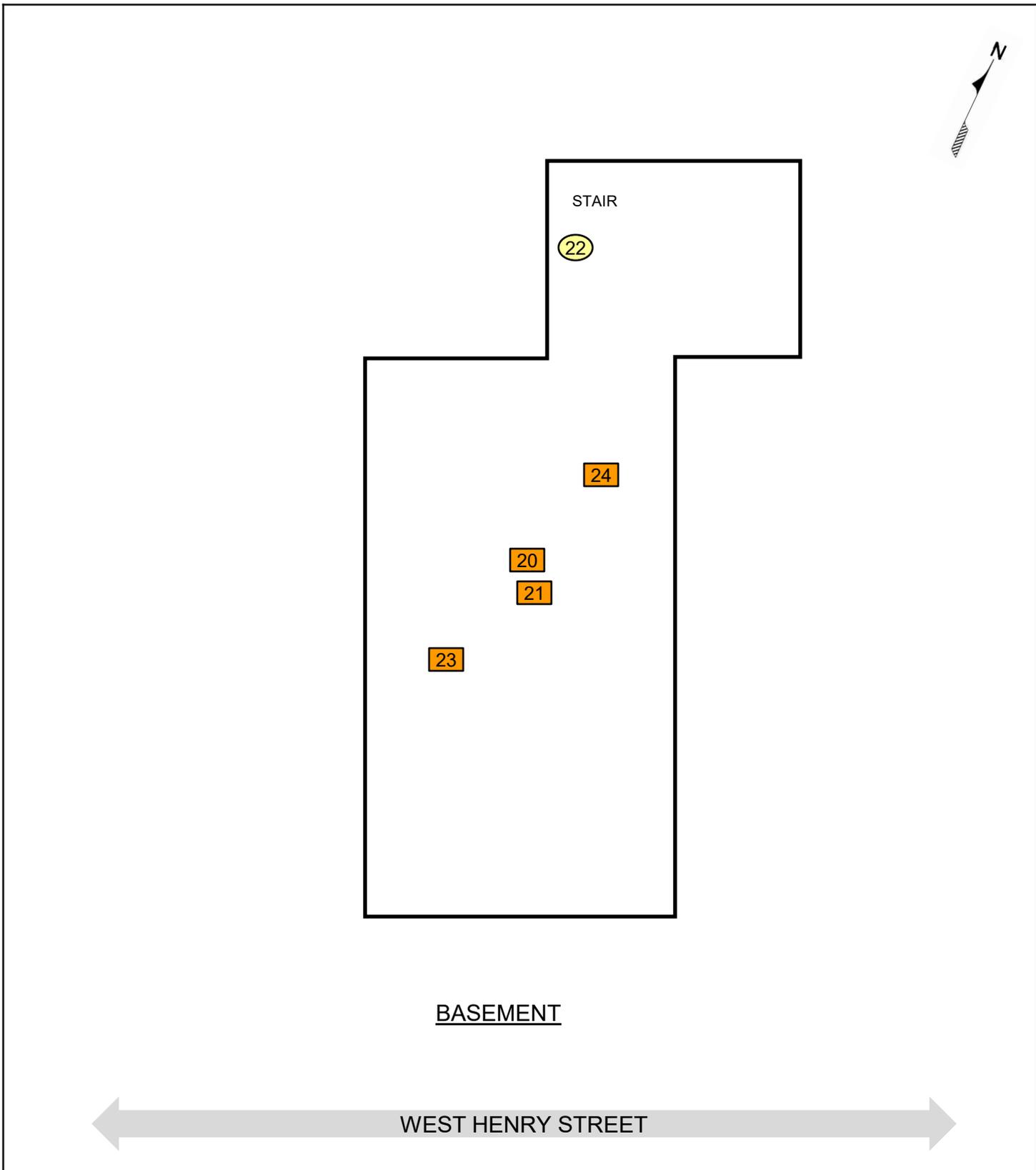


FIGURE 2: BUILDING AND SAMPLING DIAGRAM

Sampling Locations

Project: Pre-Demolition
Asbestos Survey

Site: 222 West Henry Street, Elmira, NY

-  Negative Samples
-  Positive or Presumed Samples

Photos - 222 West Henry Street, Elmira, NY



Photo 1:

Fabric duct wrap on ducts in the basement is positive friable ACM.



Photo 2:

Flue cement at the basement chimney is positive friable ACM.

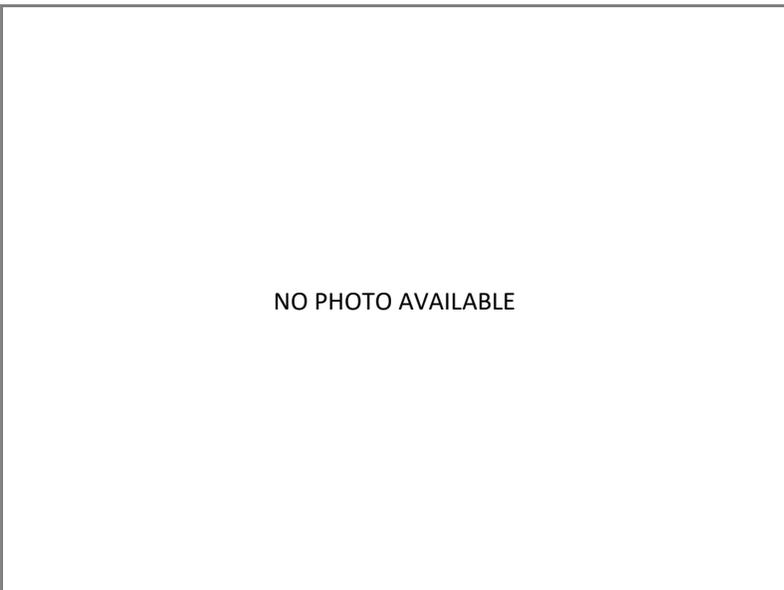


Photo 3:

Red floor tiles at the front stair landing are positive non-friable ACM.

Appendix A - Laboratory Analytical Data



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018
Tel/Fax: (212) 290-0051 / (212) 290-0058
<http://www.EMSL.com / manhattanlab@emsl.com>

EMSL Order: 031628490
Customer ID: ATEN78
Customer PO:
Project ID:

Attention: Matthew Weintraub
Atlantic Environmental Consulting, LLC
3725 Alpine Drive
Endicott, NY 13760
Phone: (607) 239-4311
Fax:
Received Date: 09/21/2016 11:03 AM
Analysis Date: 09/23/2016 - 09/24/2016
Collected Date: 09/17/2016
Project: 222 WEST HENRY STREET, ELMIRA, NY

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 11716-401 031628490-0001			Description 2FL/ KITCHEN - WHITE VINYL FLOORING Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan	4.50% Glass	95.50% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan		100.00% Other	None Detected
Sample ID 11716-402 031628490-0002			Description 2FL/ KITCHEN - WHITE VINYL FLOORING Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan		100.00% Other	None Detected
Sample ID 11716-403 031628490-0003			Description 2FL/ BATH - THINSET MORTAR Homogeneity Homogeneous		
PLM NYS 198.1 Friable	09/24/2016	Gray		20.00% Ca Carbonate 38.00% Non-fibrous (other) 42.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-404 031628490-0004			Description 2FL/ BATH - THINSET MORTAR Homogeneity Homogeneous		
PLM NYS 198.1 Friable	09/24/2016	White		24.00% Ca Carbonate 28.00% Non-fibrous (other) 48.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-405 031628490-0005			Description 2FL/ BR - FELT AT WOOD FLOOR Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Gray	<1.00% Synthetic	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Gray		100.00% Other	None Detected

Initial Report From: 09/24/2016 11:04:43



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018
Tel/Fax: (212) 290-0051 / (212) 290-0058
<http://www.EMSL.com / manhattanlab@emsl.com>

EMSL Order: 031628490
Customer ID: ATEN78
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 11716-406 031628490-0006		Description	2FL/ BR - FELT AT WOOD FLOOR		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Gray	1.00% Synthetic	99.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Gray		100.00% Other	None Detected
Sample ID 11716-407 031628490-0007		Description	2FL/ FOYER - 2X4 CEILING TILE		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	White	11.00% Min. Wool	89.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	White		100.00% Other	None Detected
Sample ID 11716-408 031628490-0008		Description	2FL/ FOYER - 2X4 CEILING TILE		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Gray/ Tan	11.40% Min. Wool	88.60% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Gray/ Tan		100.00% Other	None Detected
Sample ID 11716-409 031628490-0009		Description	2FL/ KITCHEN - 1X1 CEILING TILE		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan/ White	2.80% Min. Wool	97.20% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan/ White		100.00% Other	None Detected
Sample ID 11716-410 031628490-0010		Description	2FL/ KITCHEN - 1X1 CEILING TILE		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan/ White	3.20% Min. Wool	96.80% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan/ White		100.00% Other	None Detected
Sample ID 11716-411-Skim Coat 031628490-0011		Description	2FL/ STAIR CLOSET - PLASTER		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	09/24/2016	White		35.00% Ca Carbonate 45.00% Non-fibrous (other) 20.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial Report From: 09/24/2016 11:04:43



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

Tel/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com> / manhattanlab@emsl.com

EMSL Order: 031628490

Customer ID: ATEN78

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 11716-411-Rough Coat 031628490-0011A		Description 2FL/ STAIR CLOSET - PLASTER Homogeneity Homogeneous			
PLM NYS 198.1 Friable	09/24/2016	Brown/ Gray	3.00% Cellulose 3.00% Hair	49.00% Non-fibrous (other) 45.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-412-Skim Coat 031628490-0012		Description 2FL/ KITCHEN - PLASTER Homogeneity Homogeneous			
PLM NYS 198.1 Friable	09/24/2016	White		45.00% Ca Carbonate 55.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-412-Rough Coat 031628490-0012A		Description 2FL/ KITCHEN - PLASTER Homogeneity Homogeneous			
PLM NYS 198.1 Friable	09/24/2016	Gray	2.00% Hair	50.00% Non-fibrous (other) 48.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-413-Skim Coat 031628490-0013		Description 2FL/ KITCHEN - PLASTER Homogeneity Homogeneous			
PLM NYS 198.1 Friable	09/24/2016	White		55.00% Ca Carbonate 45.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-413-Rough Coat 031628490-0013A		Description 2FL/ KITCHEN - PLASTER Homogeneity Homogeneous			
PLM NYS 198.1 Friable	09/24/2016	Brown	6.00% Hair	39.00% Non-fibrous (other) 55.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-414 031628490-0014		Description 1FL/ KITCHEN/ BATH - WHITE VINYL FLOORING Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan		100.00% Other	None Detected

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EMSL Order: 031628490

Customer ID: ATEN78

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 11716-415 031628490-0015			Description 1FL/ KITCHEN/ BATH - WHITE VINYL FLOORING Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan	<1.00% Min. Wool	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan		100.00% Other	None Detected
Sample ID 11716-416 031628490-0016			Description 1FL/ FRONT STAIR - RED 12X12 FLOOR TILE Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Red	None	98.60% Other	1.40% Chrysotile
TEM NYS 198.4 NOB	09/23/2016				Positive Stop (Not Analyzed)
Sample ID 11716-417 031628490-0017			Description 1FL/ FRONT STAIR - RED 12X12 FLOOR TILE Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	09/23/2016				Positive Stop (Not Analyzed)
Sample ID 11716-418 031628490-0018			Description 1FL/ LR - 1X1 CEILING TILE (DOT) Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan		100.00% Other	None Detected
Sample ID 11716-419 031628490-0019			Description 1FL/ LR - 1X1 CEILING TILE (DOT) Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Tan/ White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Tan/ White		100.00% Other	None Detected
Sample ID 11716-420 031628490-0020			Description BASEMENT/ CHIMNEY - FLUE CEMENT Homogeneity Homogeneous		
PLM NYS 198.1 Friable	09/24/2016	Gray	None	15.00% Ca Carbonate 51.49% Non-fibrous (other) 30.00% Quartz	3.51% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial Report From: 09/24/2016 11:04:43



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307 West 38th Street New York, NY 10018
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<http://www.EMSL.com / manhattanlab@emsl.com>

EMSL Order: 031628490
Customer ID: ATEN78
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 11716-421 031628490-0021			Description BASEMENT/ CHIMNEY - FLUE CEMENT		
			Homogeneity		
PLM NYS 198.1 Friable	09/24/2016				Positive Stop
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-422 031628490-0022			Description BASEMENT/ WALL - PLASTER		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	09/24/2016	Gray	5.00% Cellulose	20.00% Gypsum 50.00% Non-fibrous (other) 25.00% Quartz	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-423 031628490-0023			Description BASEMENT/ DUCTS - FABRIC DUCT WRAP		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	09/24/2016	Gray	None	63.60% Non-fibrous (other)	36.40% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-424 031628490-0024			Description BASEMENT/ DUCTS - FABRIC DUCT WRAP		
			Homogeneity		
PLM NYS 198.1 Friable	09/24/2016				Positive Stop
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 11716-425 031628490-0025			Description EXTERIOR/ WINDOW - GLAZING COMPOUND		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Gray/ Green		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Gray/ Green		100.00% Other	None Detected
Sample ID 11716-426 031628490-0026			Description EXTERIOR/ WINDOW - GLAZING COMPOUND		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Gray/ Green		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Gray/ Green		100.00% Other	None Detected

Initial Report From: 09/24/2016 11:04:43



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EMSL Order: 031628490

Customer ID: ATEN78

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 11716-427 031628490-0027			Description ROOF/ R SIDE - BITUMINOUS ICE-WATER MEMBRANE Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black	25.40% Glass	74.60% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-428 031628490-0028			Description ROOF/ R SIDE - BITUMINOUS ICE-WATER MEMBRANE Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-429 031628490-0029			Description ROOF/ R PORCH - ASPHALTIC FELT Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-430 031628490-0030			Description ROOF/ R PORCH - ASPHALTIC FELT Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-431 031628490-0031			Description ROOF/ R PORCH - WHITE ASPHALTIC SHINGLE Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-432 031628490-0032			Description ROOF/ R PORCH - WHITE ASPHALTIC SHINGLE Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black	10.30% Glass	89.70% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected

Initial Report From: 09/24/2016 11:04:43



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EMSL Order: 031628490

Customer ID: ATEN78

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 11716-433 031628490-0033			Description ROOF/ MAIN FRONT - GREEN ASPHALTIC SHINGLE		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black	13.10% Glass	86.90% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-434 031628490-0034			Description ROOF/ MAIN FRONT - GREEN ASPHALTIC SHINGLE		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-435 031628490-0035			Description ROOF/ REAR PATCHED - BROWN ASPHALTIC SHINGLE		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black	2.40% Glass	97.60% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-436 031628490-0036			Description ROOF/ REAR PATCHED - BROWN ASPHALTIC SHINGLE		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black	13.50% Glass	86.50% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-437 031628490-0037			Description ROOF/ R SIDE - ASPHALTIC FLASHING CEMENT		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected
Sample ID 11716-438 031628490-0038			Description ROOF/ R SIDE - ASPHALTIC FLASHING CEMENT		
			Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/23/2016	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/24/2016	Black		100.00% Other	None Detected

Initial Report From: 09/24/2016 11:04:43



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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EMSL Order: 031628490
Customer ID: ATEN78
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 9/21/2016
Analysis Completed Date: 9/23/2016

Sample Receipt Time: 11:03 AM
Analysis Completed Time: 7:01 PM

Analyst(s):

Jon Williams PLM NYS 198.1 Friable (3)

Tiquasha Thompson PLM NYS 198.1 Friable (8)

Jon Williams PLM NYS 198.6 NOB (27)

Alicia Folgar TEM NYS 198.4 NOB (26)

Samples reviewed and approved by:

James Hall, Laboratory Manager
or Other Approved Signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.

All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial Report From: 09/24/2016 11:04:43

ATLANTIC ENVIRONMENTAL CONSULTING
CHAIN OF CUSTODY
BULK SAMPLING

PAGE 1 OF 2

EMSL Job #:

031628490

LAB:
 EMSL New York
 307 West 38th Street
 New York, NY, 10018
 212-290-0051

Atlantic Environmental Consulting, 3725 Alpine Drive,
 Endwell, NY 13760 EMAIL: atlanticconsulting@stny.rr.com

PHONE: 607-239-4311
 FAX: 877-237-7258

PROJECT: 222 WEST HENRY STREET, ELMIRA, NY JOB TYPE:
 NYS Pre-Demo.

MANAGER:
 Matthew Weintraub

ANALYSIS:	TURNAROUND TIME						
PLM	8 HR	12 HR	24 HR	48 HR	<u>72 HR</u>	96 HR	120 HR
TEM BULK	8 HR	12 HR	24 HR	48 HR	<u>72 HR</u>	96 HR	120 HR
OTHER	8 HR	12 HR	24 HR	48 HR	72 HR	96 HR	OTHER

COMMENTS:
 Analyze in order listed; stop analyses at first positive of each homogeneous area (HA).
9/23/16 7P

DATE	SAMPLE ID	BUILDING AREA	LOCATION	MATERIAL	HA
9/17/16	I1716-401	2FL	Kitchen	White vinyl flooring	A
9/17/16	I1716-402	2FL	Kitchen	White vinyl flooring	A
9/17/16	I1716-403	2FL	Bath	Thinset mortar	B
9/17/16	I1716-404	2FL	Bath	Thinset mortar	B
9/17/16	I1716-405	2FL	BR	Felt at wood floor	C
9/17/16	I1716-406	2FL	BR	Felt at wood floor	C
9/17/16	I1716-407	2FL	Foyer	2x4 ceiling tile	D
9/17/16	I1716-408	2FL	Foyer	2x4 ceiling tile	D
9/17/16	I1716-409	2FL	Kitchen	1x1 ceiling tile	E
9/17/16	I1716-410	2FL	Kitchen	1x1 ceiling tile	E
9/17/16	I1716-411	2FL	Stair closet	Plaster	F
9/17/16	I1716-412	2FL	Kitchen	Plaster	F
9/17/16	I1716-413	2FL	Kitchen	Plaster	F
9/17/16	I1716-414	1FL	Kitchen/bath	White vinyl flooring	G
9/17/16	I1716-415	1FL	Kitchen/bath	White vinyl flooring	G
9/17/16	I1716-416	1FL	Front stair	Red 12x12 floor tile	H
9/17/16	I1716-417	1FL	Front stair	Red 12x12 floor tile	H
9/17/16	I1716-418	1FL	LR	1x1 ceiling tile (dot)	I
9/17/16	I1716-419	1FL	LR	1x1 ceiling tile (dot)	I
9/17/16	I1716-420	Basement	Chimney	Flue cement	J
9/17/16	I1716-421	Basement	Chimney	Flue cement	J
9/17/16	I1716-422	Basement	Wall	Plaster	F
9/17/16	I1716-423	Basement	Ducts	Fabric duct wrap	K
9/17/16	I1716-424	Basement	Ducts	Fabric duct wrap	K
9/17/16	I1716-425	Exterior	Window	Glazing compound	L
9/17/16	I1716-426	Exterior	L window	Glazing compound	L
9/17/16	I1716-427	Roof	R side	Bituminous ice-water membrane	M
9/17/16	I1716-428	Roof	R side	Bituminous ice-water membrane	M

EMSL MATERIALS LAB
 RECEIVED
 16 SEP 21 11:03 AM

SAMPLED BY: [Signature] DATE: 9/17/16
 RELINQUISHED BY: [Signature] DATE: 9/20/16

RECEIVED BY: [Signature] DATE: 9/21/16 11:03 AM
 RECEIVED IN LAB BY: [Signature] DATE: 9/24/16 @ 10:30 am

Appendix B - Inspector & Laboratory Accreditation

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Atlantic Environmental Consulting, LLC
3725 Alpine Drive
Endwall, NY 13760

FILE NUMBER: 07-30731
LICENSE NUMBER: 30731
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 05/26/2016
EXPIRATION DATE: 05/31/2017

Duty Authorized Representative – Lynette M. Weintraub

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



MATTHEW C WEINTRAUB
CLASS(EXPIRES)
C ATEC(05/17) D INSP(05/17)
H PM (05/17) I PD (05/17)

CERT# 93-10084
DMV# 268297485

MUST BE CARRIED ON ASBESTOS PROJECTS

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



STEPHEN P MAJOR
CLASS(EXPIRES)
D INSP(03/17)

CERT# 03-01809
DMV# 709155394

MUST BE CARRIED ON ASBESTOS PROJECTS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JAMES HALL
EMSL ANALYTICAL, INC
307 WEST 38TH STREET
NEW YORK, NY 10018

NY Lab Id No: 11506

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B
Sample Preparation Methods	EPA 3050B



Serial No.: 54297

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

Appendix C

Glossary of Terms, Abbreviations, And Acronyms

12 NYCRR Part 56	A part of the Codes, Rules, and Regulations of New York State intended to control asbestos removal and disturbance activities. Commonly referred to as “Code Rule 56.”
12x12	In inches, a size description of floor tile; width x length.
1x1	In feet, a size description of ceiling tile; width x length.
2x2	In feet, a size description of ceiling tile; width x length.
2x4	In feet, a size description of ceiling tile; width x length.
9x9	In inches, a size description of floor tile; width x length.
ACM	Asbestos-containing material.
Air-Cell	Thermal pipe insulation comprised of corrugated layers which form air spaces.
Asbestos	Any of several naturally-occurring amphibole and serpentine minerals which separate into long threadlike fibers.
Asphaltic	Having an asphalt or tar-like matrix, as in a typical roof shingle.
BR	Bedroom
BUR	Built-up roofing; typically layers of asphaltic felt bonded and sealed with tar or pitch.
Ceil	Ceiling
Cementitious	Having a lime-cement matrix; such materials are typically hard and rigid.
Code Rule 56	A part of the Codes, Rules, and Regulations of New York State intended to control asbestos removal and disturbance activities. Technically referred to as “12 NYCRR Part 56.”
CT	Ceiling tile.
DR	Dining room.
Drywall	A gypsum-based sheet with heavy paper facings, used as a wall and ceiling finish, fire stopping, and sound-deadening.
E	East on the compass.
ELAP	Environmental Laboratory Approval Program, administered by the New York State Department of Health.
Felt	Any of a variety of thick papers and fabrics that are formed by pressing fibers into place, rather than weaving.
Friable	Able to be crushed or pulverized by hand pressure.
Glazing Compound	A putty or caulk used to set and seal glass in a window frame.
HVAC	Heating, ventilation, and air conditioning.
Joint Compound	A gypsum or lime based plaster-like material used to conceal and finish joints in drywall.
Kit	Kitchen.
Lagging	Thermal insulation typically installed on a boiler or tank.
l.f.	Linear feet; a unit of measure typically used to quantify the length of pipe insulation.
Limited	For asbestos surveys, the term “limited” acknowledges the fact that all possible suspect materials may not be observed. Some materials can be concealed within inaccessible areas or cannot be reached due to safety concerns. Also, a client may request a survey with limits.

LR	Living room.
Masonry	Structures comprised of concrete, brick, concrete block, or similar materials.
N	North on the compass.
NACM	Non-asbestos containing material. Contains less than 1% asbestos by laboratory analysis.
NAD	No asbestos detected (by laboratory analysis).
NE	Northeast on the compass.
NOB	Non-friable organically bound. NOBs have an organic matrix (tar, asphalt, plastic, etc.) that generally binds other constituents (fibers, powders) together. Examples are asphaltic roofing and resilient flooring.
Non-Friable	Not able to be crushed or pulverized by normal hand pressure.
NW	Northwest on the compass.
NYSDEL	New York State Department of Labor
PACM	Presumed asbestos-containing material.
PLM	Polarized light microscopy; a laboratory analytical method for identifying asbestos.
Pre-Demolition	Referring to an activity, such as a survey or inspection, conducted prior to the disturbance or demolition of a building or portion of a building.
Resilient	Somewhat flexible or plastic; able to be slightly bent or flexed without breaking.
Roll	Asphaltic rolled roofing.
S	South on the compass.
SE	Southeast on the compass.
s.f.	Square feet; a unit of area measure typically used to quantify surfacing materials, roofing, drywall, etc.
Shingle	A tile (of wood, asphalt, etc.) that is installed in overlapping fashion as a covering on roofs and walls.
Subject Property	The building or buildings that are within the work scope of an asbestos survey.
Survey	An inspection and sampling of a building, structure, debris pile, etc., for suspect asbestos-containing materials.
Suspect Material	A material which may contain asbestos.
SW	Southwest on the compass.
TEM	Transmission electron microscopy; a laboratory analytical method for identifying asbestos.
Transite	A brand of cementitious board or pipe. Older Transite typically contains asbestos.
TSI	Thermal system insulation.
Util	Utility.
VAT	Vinyl asbestos tile (floor).
VCT	Vinyl composition tile (floor).
W	West on the compass.